

Venn Diagrams

These activities will work with the Venn Diagram as a counting technique.

For each diagram below, shade the indicated region

Rides a bike only Rides & roller blades

Rides, blades & skateboards Participates in exactly one activity

II. Sketch a Venn diagram to illustrate the given the facts about ...

a) a class of students

- In a class of 32 students, 25 are freshman.
- Ten of the freshman girls play sports.
- 12 girls play sports.
- Seven Freshman boys play sports.
- 21 students play sports.
- Five freshman girls do not participate in a sport.

How many girls are in the class? _____

b) a group of 90 musicians.

- 12 musicians played in the marching band and played the trumpet.
- 18 musicians played the trumpet.
- 75 musicians were in the marching band.

How many musicians were neither in the marching band, nor played the trumpet? _____

How many musicians were not in the marching band? _____

c) a club of varsity athletes

- 25 athletes played soccer
- 7 athletes played soccer and baseball
- 14 athletes played baseball
- 9 athletes played tennis
- 7 athletes played soccer and baseball
- 6 athletes played soccer and tennis
- 4 athletes played baseball and tennis
- 2 athletes played all three sports

How many athletes played soccer, but not baseball or tennis? _____

How many athletes played soccer and baseball, but not tennis? _____

How many athletes played just one of the three sports? _____

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